VIP-156/VIP-157

SIP Analog Telephone Adapter

Quick Start Guide

Overview

This quick installation guide describes the objectives; organization and basic installation of the PLANET VIP-156/VIP-157 VoIP Phone Adapter (**"ATA"** in the following term), and explains how to establish your first voice over IP communication via PLANET product. Also, this guide shows you how to find additional information on related products and *services*.

Respective model/descriptions are shown below:

VIP-156: SIP Analog Telephone Adapter

VIP-156PE: 802.3af PoE SIP Analog Telephone Adapter

VIP-157: 1 FXS/ 1 FXO SIP Analog Telephone Adapter

VIP-157S: 2-port FXS SIP Analog Telephone Adapter

The VIP-156/VIP-157 series **ATA** integrates a web-based graphical user interface that can cover most configurations and machine status monitoring. Via standard web browser, you can configure and check machine status from anywhere around the world.

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Document Objectives

This guide provides physical installation, network configurations, and Internet access establishment information for the ATA VoIP Analog Phone Adapter.

Document Organization

This guide is organized as follows:

- Preparation before beginning VIP-156/VIP-157 administration
- Administration interface
- Network interface quick configurations
- Internet access setup guide

Preparation before beginning administration on SIP Analog Telephone Adapter

Physical Interfaces

1	**PC**	RJ-45 connector, to maintain the existing network structure, connected directly to the **PC** through **straight** CAT-5 cable
2	**LAN**	RJ-45 connector, for Internet access, connected directly to **Switch/Hub** through **straight** CAT-5 cable.
3	**12V DC**	12V DC Power input outlet

Note

1. Use proper AC adapter for the ATA, improper power supply will damage device permanently.
2. For VIP-156PE, please connect IEEE802.3af standard compliant power injector onto the LAN interface for power resource. At the same time, either PoE or AC adapter can be deployed at one time.

Administration Interface

The ATA provides GUI (Web based, Graphical User Interface) for machine management and. keypad administration is also available for simple configuration.

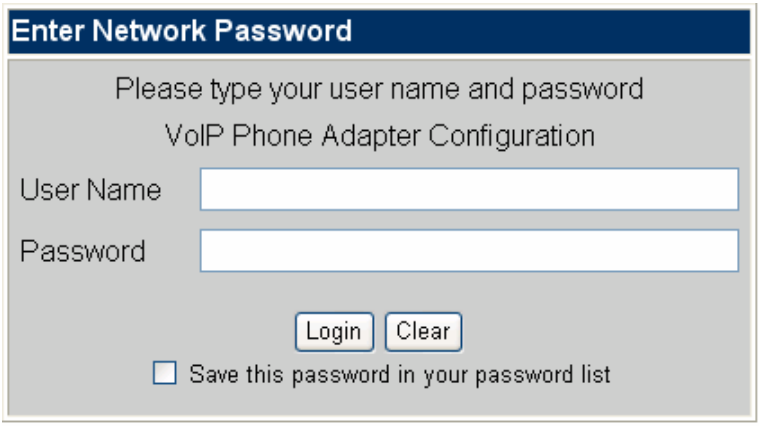
Web configuration access:

To start ATA web configuration, you must have one of these web browsers installed on computer for management

- Microsoft Internet Explorer 4.01 or higher with Java support

Default IP address of ATA is **192.168.0.1**. Please execute web browser, and insert ***http://192.168.0.1*** in the address bar of your web browser to logon ATA web configuration page.

VIP-156/VIP-157 will prompt for logon username/password, please enter: ***root*** / **null** (no password) to continue machine administration.

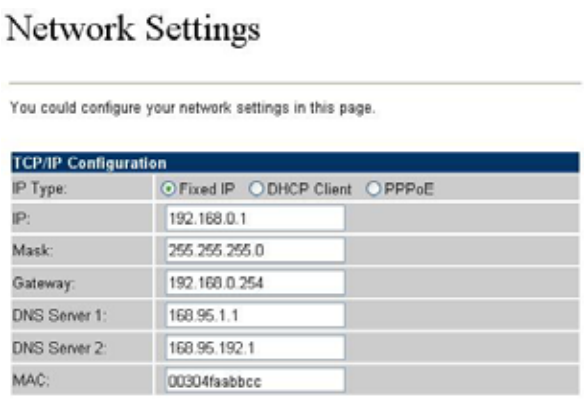


Note

In order to connect machine for administration, please locate your PC in the same network segment (192.168.0.x) of the ATA. If you're not familiar with TCP/IP, please refer to related chapter on user's manual CD or consult your network administrator for proper network configurations.

Network Interface quick configurations

Execute your web browser, and insert the IP address (default: **192.168.0.1**) of VIP in the adddress bar. After logging on machine with username/password (default: **root** / **no password**), browse to "**Network**" --> "**Network settings**" configuration menu:



Parameter Description

IP address	LAN IP address of the ATA	Default: **192.168.0.1**
Mask	LAN mask of the ATA	Default: **255.255.255.0**
Default Gateway	Gateway of the ATA	Default: **192.168.0.254**
DNS	The Domain Name Server IP address	Default: **168.95.192.1**

Connection Type	**Data required.**
Fixed IP	The ISP will assign IP Address, and related information.
DHCP client	In most circumstances, it is no need to configure the DHCP settings.
PPPoE	The ISP will assign PPPoE username / password for Internet access.

After confirming the modification you've done, please click on the **Submit** button to apply settings and browse to "**Save & Reboot**" menu to reboot machine to make the settings effective.

Save Change to Flash Memory

Most of the modification on ATA will take effective after modifications, but it is just temporary stored on RAM only, it will disappear after your reboot or power off the VoIP Phone Adapter, to save the parameters into Flash ROM and let it take effective forever, please remember to press the **Save & Reboot** button after you modify the parameters.

Keypad configurations

The ATA series phone adapters support telephone keypad configurations, please connect analog telephone set and refer to the following table for machine network configurations.

Menu Choice	Machine operation	Parameter(s)	Notes:
#111#	Set DHCP client	None	ATA will change to DHCP Client
#112xxx*xx x*xxx*xxx#	Setup Static IP Address	Use the * (star) key when entering a decimal point.	DHCP will be disabled and system will change to the Static IP type.
#113xxx*xx x*xxx*xxx#	Set Network Mask	Use the * (star) key when entering a decimal point.	Must set Static IP first.
#114xxx*xx x*xxx*xxx#	Set Gateway IP Address	Use the * (star) key when entering a decimal point.	Must set Static IP first.
#115xxx*xx x*xxx*xxx#	Set Primary DNS Server	Use the * (star) key when entering a decimal point.	Must set Static IP first.

#136#	Enable auto-config mode	None	For PLANET IPX-2000 IP PBX
#137#	Disable auto-config mode	None	For PLANET IPX-2000 IP PBX
#190#	Unlock	None	Must unlock the protect function before set up network settings via keypad.
#191#	Lock	None	The system will be locked and can't set up network settings via keypad.
#195#	Reboot	None	The system will reboot automatically.
#198#	Factory Reset	None	The system will be reset to factory default value and reboot automatically.
0∗	To switch PSTN mode	None	VIP-157 only

Following keypad commands can be used to display the network settings enabled on ATA via voice prompt.

IVR Menu Choice	Machine operation	Notes:
#120#	Check IP Address	IVR will announce the current IP address of the ATA.
#121#	Check network connection Type	IVR will announce if DHCP in enabled or disabled.
#122#	Check the Phone Number	IVR will announce current enabled VoIP number.
#123#	Check Network Mask	IVR will announce the current network mask of the ATA.
#124#	Check Gateway IP Address	IVR will announce the current gateway IP address of the ATA.
#125#	Check Primary DNS Server Setting	IVR will announce the current setting in the Primary DNS field.
#128#	Check Firmware Version	IVR will announce the version of the firmware running on the ATA.

ⓘ Hint

Please contact your Internet service provider to obtain the Internet access type, and select the proper network settings in ATA to establish the network connections.

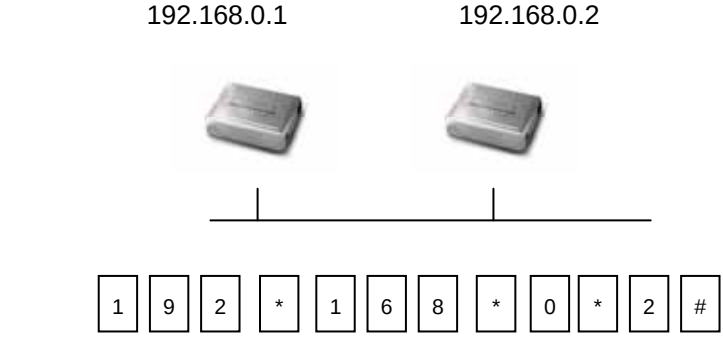
Voice communication samples

There are several ways to make calls to desired destination in ATA. In this section, we'll lead you step by step to establish your first voice communication via keypad and web browsers operations.

ATA to ATA connection via IP address

Assume there are two ATAs in the network the IP address are 192.168.0.1, 192.168.0.2

Analog telephone sets are connected to the **phone** (RJ-11) port of ATAs respectively



Operation steps:

1. Pick up the telephone set on ATA A.
2. Press the keypad: 192*168*0*2# shall be able to connect to the ATA B.

3. Then the phone in 192.168.0.2 should ring. Please repeat the same dialing steps on ATA B to establish the first voice communication from ATA A

(Peer-to-Peer mode) VIP-157S Port 1 to Port 2 communications

Supposing you have one VIP-157S connects to two telephones, just pick up phone 1 and dial '**192*168*0*1**5062**', phone 2 will ring.

Analog telephone sets are connected to the phone (RJ-11) ports of VIP-157S respectively

1	9	2	*	1	6	8	*	0	*	1	*	*	5	0	6	2	#

Operation steps:

a) Pick up the telephone set on VIP-157S port 1, and you should be able to hear the dial-tone

b) Press the keypad: **192*168*0*1**5062#** shall be able to connect to the VIP-157S port 2

c) Then the telephone set in VIP-157S port 2 should ring. Please repeat the same dialing steps on port 2 to establish the first voice communication from VIP-157S

ⓘ Hint

- In default machine operation, the VIP-157 is VoIP mode. If you want to make a PSTN phone call, press the "**0***" key to switch to PSTN mode.
- If the IP address of the remote calling party is known, you may directly make calls via its IP address and end with a "**#**".
- If the ATAs are installed behind a NAT/firewall/IP sharing device for Peer-to-Peer VoIP application, please make sure the NAT device support SIP applications, and suitable settings should be applied to the NAT device to enable the SIP communications before making calls
- **[VIP-157S]** in PLANET ATA series products, to connect to remote ATA, press the keypad in the following sequence to connect to the remote VIP-157S port 2:
  [remote ATA IP address]**5062,
  for example:**192*168*0*2**5062**

Voice communication via SIP proxy server – SIP-50

SIP-50 IP Address:

192.168.0.50

- VIP-156 IP Address:
  192.168.0.1
  Line Number: 1001

- VIP-156 IP Address:
  192.168.0.2
  Line Number: 2002

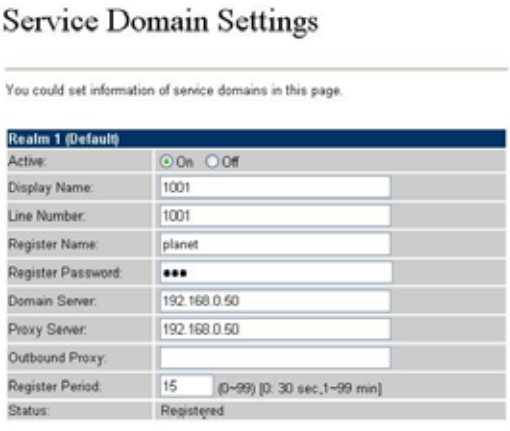
Device configurations on the ATA:

STEP 1:

Log in SIP-50 and create two testing accounts/password: **1001/123** (for ATA A), and **1002/123** (for ATA B) for the voice calls.

STEP 2:

Please log in ATA via web browser, browse to the **SIP setting** menu and select the **Domain Service** config menu. In the setting page, please insert the account/password information obtained from your service provider (in this sample, we're using PLANET SIP-50 as the SIP Proxy server for SIP account, call authentications), and then the sample configuration screen is shown below:



STEP 3:

Repeat the same configuration steps on ATA B, and check the machine registration status, make sure the registrations are completed.

Test the scenario:

To verify the VoIP communication, please

1. Pick up the telephone on ATA A
2. Press the keypad: **2002** shall be able to connect to the ATA B
3. Then the telephone set in ATA B should ring. Please repeat the same dialing steps on ATA B to establish the first voice communication from ATA A

Voice communication via IP PBX system – IPX-2000 (Auto-config)

In the following sample, we'll introduce how to integrate the ATA with our IP PBX system IPX-2000 via Auto-config feature.

IPX-2000 LAN IP Address:
192.168.0.50

- VIP-156 IP Address:
  192.168.0.1
  Line Number: 1001

- VIP-156 IP Address:
  192.168.0.2
  Line Number: 2002

Device configurations on the IPX-2000:

STEP 1:

Log in IPX-2000 and browse to the **Srevice → DHCP Service** menu and create new options list for the auto configuration.

.

Code: please insert **151** as the DHCP server option.

Value: http://LAN IP for IPX-2000/tftpboot/

An example option 151 would be option=**151** value=

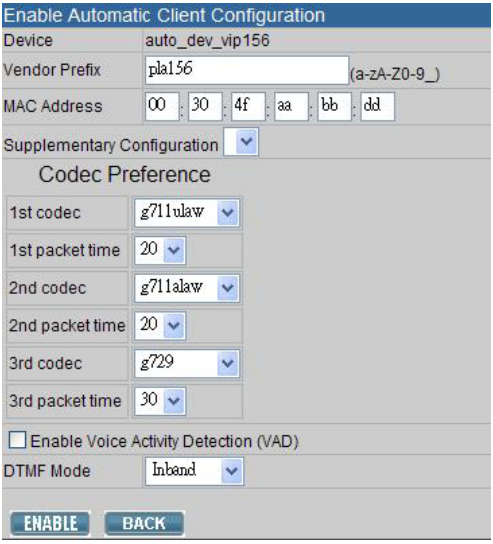
http://192.168.0.50/tftpboot/*http://192.168.0.50/tftpboot/*

STEP 2:

Please browse to the **Device → IP Phone** menu and create new device. And press the **EDIT** button for set up the Auto Config configuration.

STEP 3:

Please fill out the Vendor Prefix code and MAC Address of ATA.



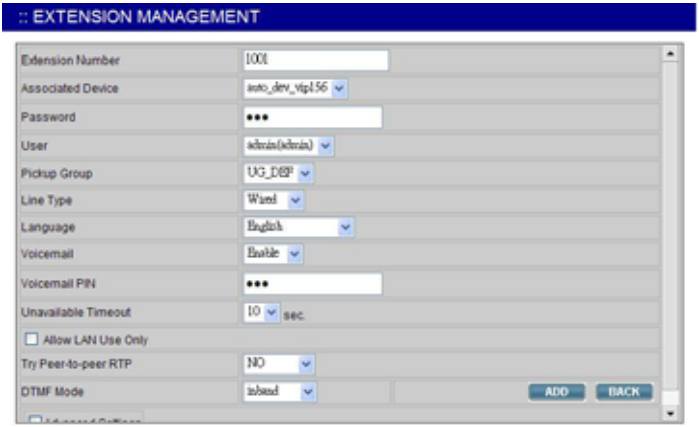
ⓘNote:

The following are the Vendor Prefix of devices:

1. VIP-156: **pla156**
2. VIP-157/VIP-157S: **pla157**

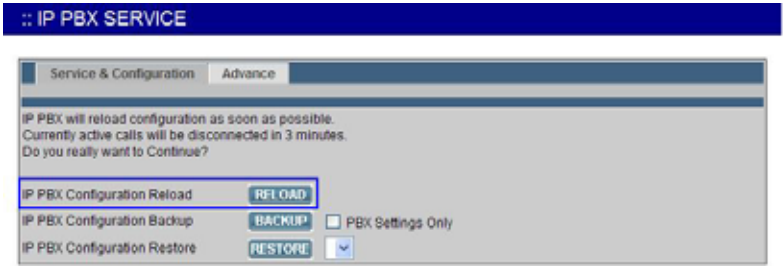
STEP 4:

Please browse to the **Device → Extension of IP Phone** menu to create the two extension accounts/password: **1001/123** (for ATA A), and **1002/123**(for ATA B) for the voice calls.



STEP 5:

After setting up the parameters, please browse to the **Service → IP PBX service** menu and press **RELOAD** of IP PBX configuration reload selection for activating the settings.



Device configurations on the ATA:

STEP 6:

Please log in ATA via web browser, browse to the **SIP setting** menu and select the **Domain Service** config menu. In the setting page, please browse to the Auto-config page, and enable the Auto Configuration features for IP PBX system.

STEP 7:

After enabling the auto-config feature, the ATA shall be able to obtain IP address and SIP extension information from IP PBX system IPX-2000 information. To verify the auto-config results, you may connect telephone set to ATA; press **#120#** to check if the IP address is obtained from IPX-2000. And **#122#** can be used to verify the extension number assigned by IPX-2000.

STEP 8:

Repeat the same configuration steps on ATA B, and check if the ATA B is successfully registered with the IPX-2000 as one of the IP extensions.

Test the scenario:

1. Pick up the telephone on ATA A
2. Press the keypad: **2002** shall be able connect to the ATA B
3. Then the telephone set in ATA B should ring. Please repeat the same dialing steps on ATA B to establish the first voice communication from ATA A

Note

The operation samples of Auto-config function was supported by firmware V1.5 or higher version of IP PBX.

Quick reference in CD-ROM guide

This guide is used to help you startup the first voice communications via the phone adapters. It is also recommended to check the user manual CD-ROM for more details and how to set the device back to default value.